Access DB#

Requester's

PTO-1590 (8-01)

FEB 28 28%

Scientific and Technical Information Center

(\$110)		
Full Name:	RICHARD SCHULZER Examiner #: 76557 Date: 2/23/04	
1625	Phone Number 30 2-0762 Serial Number: 09/647676	

Art Unit: _ Results Format Preferred (circle): PAPER DISK E-MAIL Mail Box and Bldg/Room Location: 2218

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: NEW AGENTS FOR TRANSFERRING NUCLEIC ACIOS

Inventors (please provide full names): GERARDO BYK, DANIEL SCHERMAN, MARC FREDERIC,

HANS HOELAND Earliest Priority Filing Date: 42/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search claim attached

C. Chan

PLEASE PELIVER TO P. SCHULWITZ

STAFF USE ONLY Vendors and cost where applicable Type of Search NA Sequence (#) STN Searcher Phone #: AA Sequence (#)_ Dialog ___ Ouestel/Orbit Searcher Location: Structure (#) Date Searcher Picked Up: Bibliographic Date Completed: 2/25 Litigation Lexis/Nexis Searcher Prep & Review Time: Fulltext Sequence Systems _ Clerical Prep Time: _ Patent Family WWW/Internet Other Other (specify) Online Time:



STIC Database Tracking Number 114916

TO: Richard Schnizer Location: REM-2C18

Art Unit: 1635

Wednesday, February 25, 2004 Case Serial Number: 09/647678 From: Paul Schulwitz

Location: Biotech-Chem Library

REM-1A65

Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Schnizer,

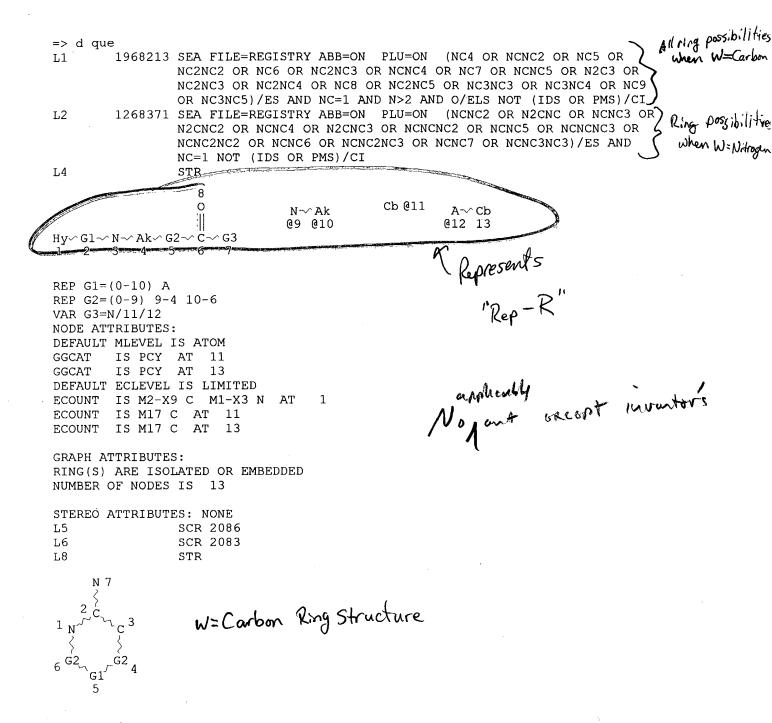
See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz Technical Information Specialist STIC Biotech/Chem Library (571)272-2527





VAR G1=C/N REP G2=(0-3) CH2 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

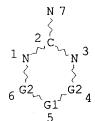
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L10 100 SEA FILE=REGISTRY SUB=L1 SSS FUL L5 AND L6 AND L4 AND L8

L11 ST



w = Nitrogen Ring Structure

VAR G1=C/N REP G2=(0-3) CH2 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

247 SEA FILE=REGISTRY SUB=L2 SSS FUL L11 AND L4 347 SEA FILE=REGISTRY ABB=ON PLU=ON L10 OR L13 268 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND NR<5 L20 237 SEA FILE=REGISTRY ABB=ON PLU=ON L20 NOT OC4/ESS L21 51 SEA FILE=REGISTRY ABB=ON PLU=ON L21 NOT C6/ESS L22 50 SEA FILE=REGISTRY ABB=ON PLU=ON L22 NOT 51798-45-9 L27 28 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 L28 L29 49 SEA FILE=REGISTRY ABB=ON PLU=ON L28 NOT 22838-63-7 40 SEA FILE=REGISTRY ABB=ON PLU=ON L29 NOT (59472-95-6 OR L31 59452-67-4 OR 83944-46-1 OR 83917-37-7 OR 83879-10-1 OR 83879-09-8 OR 83874-02-6 OR 83873-67-0 OR 99382-11-3) 21 SEA FILE=HCARLUS ABB=ON PLU=ON L31

=> d'ibib ab bittstr-1-21-

L32 ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:76589 HCAPLUS

DOCUMENT NUMBER: 138:131139

TITLE: Cell-cycle drugs for the prevention and treatment of

Alzheimer's disease

INVENTOR(S): Nagy, Zsuzsanna

PATENT ASSIGNEE(S): Isis Innovation Limited, UK

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2003007925 A1 20030130 WO 2002-GB3327 20020719 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003032673 A120030213 US 2002-200023 A 20010719 GB 2001-17645 PRIORITY APPLN. INFO.: The invention relates to therapeutic agents for use in the prevention or treatment of Alzheimer's disease. In particular the invention relates to use of inhibitors of cell cycle re-entry and progression to the G1/S transition or inhibitors of progression of the cell cycle through the G1/S transition point in the prevention or treatment of Alzheimer's disease. IT 188674-15-9, NA22598 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cell-cycle drugs for prevention and treatment of Alzheimer's disease) RN188674-15-9 HCAPLUS L-Valine, N-[2,3-diamino-8-[2-amino-1-(aminocarbonyl)-4,5-dihydro-1H-CN imidazol-5-yl]-2,3,4,5,8-pentadeoxyoctonoyl]-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Currently available stereo shown.

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 2 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:736021 HCAPLUS

DOCUMENT NUMBER:

137:247930

TITLE:

Asymmetric synthesis of (S, S, R) - (-)-actinonin and its

analogs

INVENTOR(S):

analogs Bornman, William G.; Sirotnak, Francis M.; Scher,

Howard; Vidal, Ephraim; Scheinberg, David; Borella,

Christopher

PATENT ASSIGNEE(S):

Sloan Kettering Institute for Cancer Research, USA

PCT Int. Appl., 77 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

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LANGUAGE:
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English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND DATE
                                           APPLICATION NO. DATE
     PATENT NO.
     _____
                                            _____
                            _____
                             20020926
                                           WO 2002-US8387
                                                              20020319
     WO 2002074050
                       A2
                     A3
     WO 2002074050
                             20030227
         W: AZ, BB, BG, CA, CU, CZ, EE, GB, GH, HU, IL, KG, KR, LK, LU, MG,
         MW, NZ, RO, RU, YU, ZA, BY, KG, MD, RU, TJ, TM RW: BF, BJ, CI, CM, GN, ML, NR, SN, TD, TG
                                                              20020319
     US 2002198156
                       A1
                             20021226
                                           US 2002-102593
     US 6660741
                       B2
                             20031209
                       A2
                             20040102
                                            EP 2002-725239
                                                              20020319
     EP 1372692
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                      A1 20040129
                                           US 2003-603953
                                                              20030625
     US 2004019083
PRIORITY APPLN. INFO.:
                                         US 2001-277116P P 20010319
                                                         A3 20020319
                                         US 2002-102593
                                         WO 2002-US8387
                                                         W 20020319
OTHER SOURCE(S):
                          CASREACT 137:247930; MARPAT 137:247930
```

The analogs of (S,S,R)-(-)-actinonin I [R1 = an optionally substituted orhalogenated alkyl, aryl, heteroalkyl or heteroaryl amine, a cycle or bicycle; R2 = Me, Et, n-Pr, tert-Bu, Ph, 3,4-dichlorophenyl, biphenyl, benzyl, 4-hydroxybenzyl, piperidine, N-Boc-4-piperidine, CH2-(N-Boc-4-piperidine), 4-tetrahydropyran, CH2-4-tetrahydropyran, 3-Me indolyl, 2-naphthyl, 3-pyridyl, 4-pyridyl, 3-thienyl; R3 = R2 or alkyl; R4 = alkyl; R5 = NH2, OH, NHOH, NHOMe, N(Me)OH, N(Me)OCH3, NHEt, NHCH2(2,40Me2Ph), NHCH2(4-NO2)Ph, NHNMe2, proline, or 2-hydroxymethyl pyrrolidine, Boc = tert-butoxycarbonyl] were prepd. as antitumor agents. Thus, N4-hydroxy-N1-(1-(2-hydroxymethyl-pyrrolidine-1-carbonyl)-3-methylbuty1)-2-pentyl-succinamide was prepd. by coupling of protected pseudopeptide composed of L-prolinol and L-leucine, with hydroxysuccinamide and O-benzylhydroxyamine hydrochloride and is effective at inhibiting cell growth.

IT 460754-52-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

RN 460754-52-3 HCAPLUS

Butanediamide, N4-hydroxy-N1-[(1S)-1-[(2R)-2-(hydroxyamino)-1-CN pyrrolidinyl]carbonyl]-3-methylbutyl]-2-pentyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L32 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:100201 HCAPLUS

DOCUMENT NUMBER: 132:264989

TITLE: Introduction of cyclic guanidines into cationic lipids

for non-viral gene delivery

AUTHOR(S): Frederic, Marc; Scherman, Daniel; Byk, Gerardo

CORPORATE SOURCE: UMR-7001 Rhone-Poulenc Rorer Gencell/CNRS/ENSCP 13,

Vitry sur Seine, 94403, Fr.

SOURCE: Tetrahedron Letters (2000), 41(5), 675-679

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB In order to study the impact of chem. modifications of lipopolyamines on their gene delivery properties, cyclic guanidines were introduced into the polyamine moiety. These lipopolyamino-cycloguanidines can be easily obtained by reacting polyamines with 2-methylmercapto-2-imidazolinium iodide or 2-methylmercaptotetrahydropyrimidinium iodide. These lipopolyamino-cycloguanidines constitute a novel family of cationic lipids.

IT 245738-75-4P 245738-76-5P 245738-77-6P 245738-78-7P 245738-79-8P 245738-80-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(introduction of cyclic guanidines into cationic lipids for non-viral gene delivery)

RN 245738-75-4 HCAPLUS

CN Glycinamide, N-[3-[[4-(2-amino-5,6-dihydro-1(4H)-pyrimidinyl)butyl]amino]propyl]glycyl-N,N-dioctadecyl- (9CI) (CA INDEX NAME)

RN 245738-76-5 HCAPLUS

CN Glycinamide, N-[3-[4-(2-amino-5,6-dihydro-1(4H)-

pyrimidinyl)butyl]amino]propyl]glycyl-N,N-ditetradecyl- (9CI) (CA INDEX NAME)

RN 245738-77-6 HCAPLUS

CN Glycinamide, N-[3-[[4-[[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]amino]butyl]amino]propyl]glycyl-N-tetradecyl-N-tetradecyl-(9CI) (CA INDEX NAME)

PAGE 1-B

$$--$$
 N- (CH₂)₁₃-Me | (CH₂)₁₃-Me

RN 245738-78-7 HCAPLUS

CN Glycinamide, N-[3-[bis[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]amino]propyl]glycyl-N,N-ditetradecyl-(9CI) (CA INDEX NAME)

$$(CH_2)_3 - NH - CH_2 - C - NH - CH_2 - C - N - (CH_2)_{13} - Me$$

$$NH - (CH_2)_3 - NH - (CH_2)_3 - NH - NH - (CH_2)_{13} - Me$$

$$(CH_2)_{13} - Me$$

RN 245738-79-8 HCAPLUS

CN Glycinamide, N-[3-[{3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amin o]propyl]glycyl-N-tetradecyl-N-tetradecyl-(9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

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RN 245738-80-1 HCAPLUS

CN Glycinamide, N-[3-[[3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amin o]propyl]glycyl-N-octadecyl-N-octadecyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

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REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:672798 HCAPLUS

DOCUMENT NUMBER:

131:299691

TITLE:

Preparation of heterocyclic glycyl .beta.-alanine

derivatives as vitronectin antagonists

INVENTOR(S):

Chandrakumar, Nizal Samuel; Desai, Bipinchandra Nanubhai; Devadas, Balekudru; Huff, Renee; Khanna, Ish

Nanubhai; Devadas, Balekudru; Huff, Renee; Khanna, Ish K.; Rao, Shashidhar N.; Rico, Joseph G.; Rogers, Thomas E.; Ruminski, Peter G.; Russell, Mark Andrew; Yu, Yi; Gasiecki, Alan Frank; Malecha, James W.;

Miyashiro, Julie M.

PATENT ASSIGNEE(S): SOURCE:

G.D. Searle and Co., USA PCT Int. Appl., 269 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.							APPLICATION NO.										
WO	9952			A.	1	1999	1021		W	0 19	99-U	s429	7	1999	0409			
	W:	AE,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
		DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	
		JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	
		MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	
		TM,	TR,	TT,	UA,	ŪG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	
		MD,	RU,	ТJ,	TM													
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	
•		ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	
		CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
US	6689	754		В	1	2004	0210		U	s 19	99-2	8914	0	1999	0408			
CA	2326	665		ΑZ	Ą	1999	1021		C.	A 19	99-2	3266	65	1999	0409			
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EP	1070	060		A.	1	2001	0124		E	P 19	99-9	1611	9	1999	0409			
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BR	9910	119		Α		2001	1009		B	R 19	99-1	0119		1999	0409			
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NO	2000	0050	84	Α		2000	1127		N	O 20	00-5	084		2000	1009			
PRIORIT'	Y APP	LN.	INFO	. :				1	US 1	998-	8139	4 P	P	1998	0410			
								1	WO 1	999-	US42	97	W	1999	0409			
OTHER S	OURCE	(S):			MAR	PAT	131:	2996	91			•						

Tile compds. A(CY323) t-Het-CO-V-(CYZ) n-CONR11CHR1(CH2) pCOR [Het = AΒ (un) substituted 5-8 membered monocyclic heterocyclic ring contg. 1-4 heteroatoms selected from O, N, or S, optionally unsatd. and linked to (CY3Z3)t and CO at the 1- and 3-positions; A = NR5C(:Y1)NR7R8, NR5C(:NR7)Y2, or N:C(NR2R5)(NR7R8), where Y1 = NR2, O, S; R2, R7, R8 = H, alkyl, aryl, amino, etc. or R2 and R8 taken together form an (un) substituted dinitrogen heterocycle; R5 = H, alkyl, alkenyl, alkynyl, benzyl, phenethyl; and Y2 = alkyl, cycloalkyl, bicycloalkyl, aryl, etc.; V = NR6, where R6 = H, alkyl, cycloalkyl, aralkyl, aryl, monocyclic heterocyclyl or R6 together with Y forms a mono-nitrogen-contg. ring; Y, Y3, Z, Z3 = H, alkyl, aryl, cycloalkyl or Y and Z together or Y3 and Z3 together form cycloalkyl; n = 1-3; t = 0-2; p = 0-3; R = X-R3, where X = 0O, S, or NR4 and R3 and R4 = H, alkyl, sugars, steroids, etc.; R1 = H, alkyl, alkenyl, alkynyl, aryl, etc.] or their pharmaceutically acceptable salts were prepd. as vitronectin antagonists. Thus, 5-[(aminoiminomethyl)amino]-N-[2-[[2-carboxy-1-(3-bromo-5-chloro-2hydroxyphenyl)ethyl]amino]-2-oxoethyl]-3-pyridinecarboxamide bis(trifluoroacetate) was prepd. and showed IC50 = 1.58 nM for inhibition of human vitronectin receptor (.alpha.v.beta.3).

IT 247100-51-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heterocyclic glycyl .beta.-alanine derivs. as vitronectin

PRIORITY APPLN. INFO.:

FR 1998-4121 A 19980402 US 1998-85845P P 19980518 WO 1999-FR740 W 19990330

OTHER SOURCE(S):

MARPAT 131:267946

The invention concerns novel compds. useful as agents for transferring nucleic acids into cells. Said novel compds. are more particularly related to the lipopolyamine family, and comprise at least a cyclic amidine function. They are useful for transfecting nucleic acids of interest into different cell types, in vitro as well as in vivo or ex vivo

IT 245738-75-4P 245738-76-5P 245738-77-6P 245738-78-7P 245738-79-8P 245738-80-1P

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (amidine-contg. lipopolyamines, their synthesis and use in transfection)

RN 245738-75-4 HCAPLUS

CN Glycinamide, N-[3-[[4-(2-amino-5,6-dihydro-1(4H)-pyrimidinyl)butyl]amino]propyl]glycyl-N,N-dioctadecyl- (9CI) (CA INDEX NAME)

(CH₂)₄-NH-(CH₂)₃-NH-CH₂-C-NH-CH₂-C-N-(CH₂)₁₇-Me

N_{NH₂}
(CH₂)₁₇-Me

(CH₂)₁₇-Me

(CH₂)₁₇-Me

RN 245738-76-5 HCAPLUS

CN Glycinamide, N-[3-[[4-(2-amino-5,6-dihydro-1(4H)-pyrimidinyl)butyl]amino]propyl]glycyl-N,N-ditetradecyl-(9CI) (CA INDEX NAME)

RN 245738-77-6 HCAPLUS

CN Glycinamide, N-[3-[[4-[[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]amino]butyl]amino]propyl]glycyl-N-tetradecyl-N-tetradecyl-(9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 245738-78-7 HCAPLUS

CN Glycinamide, N-[3-[bis[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]glycyl-N,N-ditetradecyl- (9CI) (CA INDEX NAME)

RN 245738-79-8 HCAPLUS

CN Glycinamide, N-[3-[(3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amin o]propyl]glycyl-N-tetradecyl-N-tetradecyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

— Ме

RN 245738-80-1 HCAPLUS

CN Glycinamide, N-[3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amin

o]propyl]glycyl-N-octadecyl-N-octadecyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

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REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS 6 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:457919 HCAPLUS

DOCUMENT NUMBER:

131:116229

TITLE:

Preparation of thiazolecarboxamides as vitronectin

receptor antagonists

INVENTOR(S):

Alig, Leo; Edenhofer, Albrecht; Hilpert, Kurt; Weller,

Thomas

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche AG, Switz.

SOURCE:

Eur. Pat. Appl., 87 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.	KIND	DATE	APPLICATION NO. DATE
	928790	 A1	19990714	EP 1998-124670 19981224
	928790			11 1330 124070 13301224
	R: AT, BE,	CH, DE	, DK, ES, FI	R, GB, GR, IT, LI, LU, NL, SE, MC, PT,
	IE, SI,	LT, LV	, FI, RO	
US	6100282	Α	20000808	US 1998-218567 19981222
ΝZ	333590	Α	20000526	NZ 1998-333590 19981224
ΝZ	333591	А	20000526	NZ 1998-333591 19981224
ΑТ	233746	E	20030315	AT 1998-124670 19981224
PT	928790	T	20030731	PT 1998-98124670 19981224
NO	9806159	Α	19990705	NO 1998-6159 19981228
ZA	9811925	Α	20000629	ZA 1998-11925 19981229
ΑU	9896144	A1	19990722	AU 1998-96144 19981230
AU	720618	В2	20000608	
SG	74686	A1	20000822	SG 1998-5978 19981230
.TP	2000053664	A2	20000222	JP 1999-10 19990104

antagonists)

RN 247100-51-2 HCAPLUS

CN Butanoic acid, 3-[[[[1,6-dihydro-6-oxo-5-[(1,4,5,6-tetrahydro-5-hydroxy-2-pyrimidinyl)amino]-3-pyridinyl]carbonyl]amino]acetyl]amino]-4,4,4-trifluoro-(9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 5 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:659366 HCAPLUS

DOCUMENT NUMBER:

131:267946

TITLE:

Amidine-containing lipopolyamines, their synthesis and

use in transfection

INVENTOR(S):

Byk, Gerardo; Frederic, Marc; Hofland, Hans;

Schermann, Daniel

PATENT ASSIGNEE(S):

Rhone-Poulenc Rorer S.A., Fr.

SOURCE:

PCT Int. Appl., 83 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

В2

Α

20030410

20001101

FAMILY ACC. NUM. COUNT:

PATENT ÍNFORMATION:

AU 759301

NO 2000004780

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WO	9951	581		A	1	1999	1014		W	0 19	 99-F	R740		1999	0330			B ?p	, land
	W:	ΑE,	AL,	AT,	BA,	BB,	BG,	BR,	CA,	CN,	CU,	CZ,	EE,	GD,	GΕ,	HU,	ID,		
		IL,	IN,	IS,	JP,	KΡ,	KR,	LC,	LK,	LR,	LT,	LV,	MG,	MK,	MN,	MX,	NO,		
		NZ,	PL,	RO,	RU,	SG,	SI,	SK,	SL,	TR,	TT,	UA,	US,	UZ,	VN,	YU,	AM,		
		AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM										
	RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,		
														BF,					
		CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG							
FR	2777	017		A.	1	1999	1008		F	R 19	98-4	121		1998	0402				
FR	2777	017		В	1	2002	0823												

AU 2000-34061

NO 2000-4780

20000512

20000925

ŀΚ	2777017	BI	20020823		
CA	2324931	AA	19991014	CA 1999-2324931	19990330
BR	9909350	Α	20001212	BR 1999-9350	19990330
EΡ	1068188	A 1	20010117	EP 1999-910463	19990330
	R: AT, BE,	CH, DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, PT, IE,
	SI, FI				
JΡ	2002513543	Т2	20020514	JP 2000-542302	19990330

JP 3113237	В2	20001127				
BR 9900006	A	20000411		BR 1999-6		19990104
MX 9900215	Α	20000630		MX 1999-215		19990104
RU 2218337	C2	20031210		RU 1999-10027	7	19990105
нк 1020953	A1	20020726		HK 1999-10613	6	19991228
US 6320054	В1	20011120		US 2000-52603	3	20000315
US 2002010316	A 1	20020124		US 2001-87870	4	20010611
US 6344562	B2	20020205				
PRIORITY APPLN. INFO.:			EΡ	1998-100006	Α	19980102
			US	1998-218567	A3	19981222
			US	2000-526033	А3	20000315

MARPAT 131:116229 OTHER SOURCE(S):

R1 (CH2) aZ (CONR9) cZ1 (CH2) e (NB) fAm (NH) g (CH2) n [CH[(CO)k(NH)lR10]]i (CH2) i CO2H[I; A = CO or SO2; B,R9 = H or (cyclo)alkyl; R1 = NR6CONR5(CH2)bR4, NR5R6, NHC(:NR8)NHR7, etc.; R4 = H, (cyclo)alkyl, (hetero)aryl; R5,R6 = H, (cyclo)alkyl, aryl, etc.; R7,R8 = H, (ar)alkyl, etc.; R7R8 = atoms to complete a ring; R10 = H, OH, (ar)alkyl, carboxy(alkyl), alkoxycarbonyl, etc.; Z = (un) substituted thiazole-2,4- or -2,5-diyl; Z1 = bond or arylene; a,j = 0-2; b = 0-4; c,f,g,h,i,k,l,m = 0 or 1; e = 0-3; h = 0-5] were prepd. Thus, H2NC(:NH)NHCSNH2 was cyclocondensed with BrCH2COCO2Et and the sapond. product amidated by H2NCH2CH2CONHCH2CH2CO2Et to give, after sapon., H2NC(:NH)NHZ(CONHCH2CH2)2CO2H(Z = thiazole-2,4-diyl). Data for biol. activity of I were given.

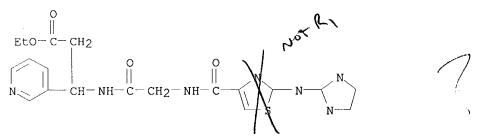
IT232596-91-7P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of thiazolecarboxamides as vitronectin receptor antagonists)

232596-91-7 HCAPLUS RN

.beta.-Alanine, N-[[2-[(4,5-dihydro-1H-imidazol-2-yl)amino]-4-CN thiazolyl]carbonyl]qlycyl-3-(3-pyridinyl)-, ethyl ester (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 8 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 7 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:370604 HCAPLUS

DOCUMENT NUMBER:

131:179415

TITLE:

NA22598, a Novel Antitumor Compound, Reduces Cyclin D1 Levels, Arrests Cell Cycle at G1 Phase, and Inhibits Anchorage-Independent Growth of Human Tumor Cells

AUTHOR(S):

Kawada, Manabu; Kuwahara, Atsushi; Nishikiori,

Takaaki; Mizuno, Satoshi; Uehara, Yoshimasa

CORPORATE SOURCE:

Department of Bioactive Molecules, National Institute

of Infectious Diseases, Tokyo, 162-8640, Japan

SOURCE:

Experimental Cell Research (1999), 249(2), 240-247

CODEN: ECREAL; ISSN: 0014-4827

PUBLISHER:

Academic Press

DOCUMENT TYPE:

Journal

LANGUAGE:

English

NA22598, a novel antitumor compd. isolated from a microbial cultured broth, inhibited the growth of human colon cancer DLD-1 cells in suspension cultures (anchorage-independent growth) severalfold more strongly than in substratum-attached monolayer cultures. It arrested the cell cycle progression at early G1 phase under both these culture conditions. Rb phosphorylation, cyclin D1 expression, and cdk2 activation in G1 progression were all inhibited by NA22598, but the amts. of cdk2 and p27 were not affected. Among these effects the inhibition of cyclin D1 expression was most prominent, and NA22598 was found to inhibit the synthesis of cyclin D1 without affecting mRNA expression or protein degrdn. P27 binding to cdk2 was more markedly increased in suspension cultures than in attached cultures by NA22598, but the compd. had no effect on total p27. Apparently, the decrease of cyclin D1 induced redistribution of p27 from the cyclin D1/cdk4 to the cyclin E/cdk2 complexes during G1 phase in the suspension cultures. Because p27 is upregulated during suspension culture, a greater amt. of it was assocd. with cyclin E/cdk2, thus producing greater growth inhibition. An agent, like NA22598, which induces the downregulation of cyclin D1 might offer a new anticancer strategy. (c) 1999 Academic Press.

188674-15-9, NA 22598 IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antitumor NA22598 reduces cyclin D1 levels, arrests cell cycle at G1 phase, and inhibits anchorage-independent growth of human tumor cells)

RN 188674-15-9 HCAPLUS

L-Valine, N-[2,3-diamino-8-[2-amino-1-(aminocarbonyl)-4,5-dihydro-1H-CN imidazol-5-yl]-2,3,4,5,8-pentadeoxyoctonoyl]-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Currently available stereo shown.

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS 27 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2004 ACS on STN L32 ANSWER 8 OF 21

ACCESSION NUMBER:

1998:379115 HCAPLUS

DOCUMENT NUMBER:

129:81526

TITLE:

Preparation of cationic lipids as materials for

liposomes for gene transfer

INVENTOR(S):

Belloni, Paula Nanette; Hirshfeld, Donald Roy; Rink, John Otto; Nester, John Joseph; Peltz, Gary Allen

PATENT ASSIGNEE(S): SOURCE:

F. Hoffmann-la Roche A.-G., Switz. Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	ENT	NO.		KI	ND.	DATE			AP:	PLIC	CATI	ои ис).	DATE			
	JΡ	1015	2461		A	2	1998	0609		JP	199	7-2	85925	5	1997	1020		
	EΡ	8466	80		A.	1	1998	0610		EΡ	199	7-1	17934	l	1997	1016		
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR, G	В, (GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO										
1	US	6034	137		Α		2000	0307		US	199	97-9	54428	3	1997	1020		
	CN	1180	697		Α		1998	0506		CN	199	97-1	21514	l	1997	1021		
	CN	1068	585		В		2001	0718										
	BR	9705	117		Α		1998	0915		BR	199	7-5	117		1997	1022		
PRIOR	ΙTΊ	APP	LN.	INFO	.:				US	19	96-2	2958	1 P	P	1996	1022		
									US	19	97-4	1992:	2 P	P	1997	0618		

OTHER SOURCE(S): MARPAT 129:81526

The title compds. R1R2NC(O)AX [R1, R2 = C10 - C26 hydrocarbyl; A =hydrocarbylene (further details on said hydrocarbylene are given); X = NHC(:NR3)NHR4, etc.; R3, R4 = hydrocarbyl, etc.; a proviso is given] are prepd. In an in vivo gene transfer test, the transfection efficiency obtained with 2-quanidino-N, N-dioctadeca-9-enylpropionamide was greater than that achieved with Dotma.

209397-02-4P ΙT

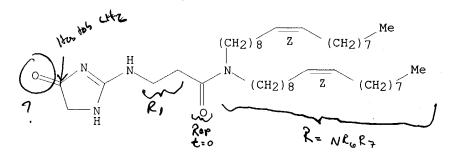
> RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of cationic lipids as materials for liposomes)

209397-02-4 HCAPLUS RN

Propanamide, 3-[(4,5-dihydro-4-oxo-1H-imidazol-2-yl)amino]-N,N-di-(9Z)-9-CN octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L32 ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:578994 HCAPLUS

DOCUMENT NUMBER:

127:259852

TITLE:

NA22598A1, a novel antitumor substance produced by

Streptomyces sp. NA22598

AUTHOR(S):

Anon.

CORPORATE SOURCE:

Japan

SOURCE:

Journal of Antibiotics (1997), 50(8), 712-713

CODEN: JANTAJ; ISSN: 0021-8820

Japan Antibiotics Research Association PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

م ادمان

The prodn., isolation, physico-chem. properties, and biol. activity of the antitumor peptide NA22598A1 (I) of the title Streptomyces strain are reported. I is a peptide contq. 8-(2-iminoimizolin-4-yl)-2,3-diamino-6,7dihydroxyoctanoic acid, alanine, and valine. I inhibited the anchorage-independent growth of a human colon cancer cell line (DLD-1) on poly 2-hydroxyethylmethacrylate-coated plates but did not inhibit growth on uncoated plates. I was inactive at 200 .mu.g/mL against gram-pos. and -neg. bacteria, yeast, and fungi.

188674-15-9P, NA22598A1

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

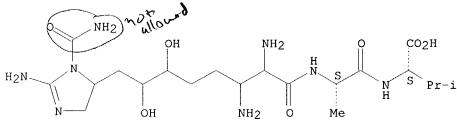
(NA22598A1, a novel antitumor substance produced by Streptomyces NA22598)

188674-15-9 HCAPLUS RN

L-Valine, N-[2,3-diamino-8-[2-amino-1-(aminocarbonyl)-4,5-dihydro-1H-CN imidazol-5-yl]-2,3,4,5,8-pentadeoxyoctonoyl]-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Currently available stereo shown.



REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 10 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

4

ACCESSION NUMBER: 1997:298880 HCAPLUS

DOCUMENT NUMBER: 127:39601

TITLE: Modified mucoadhesive polymers for the peroral

administration of mainly elastase degradable

therapeutic (poly)peptides

Bernkop-Schnuerch, Andreas; Schwarz, Gerit H.; AUTHOR(S):

Kratzel, Martin

Institute of Pharmaceutical Technology, University of CORPORATE SOURCE:

Vienna, Althanstr. 14, A-1090, Vienna, Austria

SOURCE: Journal of Controlled Release (1997), 47(2), 113-121

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER: Elsevier DOCUMENT TYPE: Journal English LANGUAGE:

A no. of elastatinal-polymer conjugates, having the inhibitor linked to sodium CM-cellulose (Na-CMC), poly(acrylic acid) (PAA) and poly(acrylic acid-divinyl glycol) via a 1,8-diaminooctane spacer, were synthesized and their protective effect from enzymic degrdn. caused by elastase as well as

their mucoadhesive properties were evaluated. Unmodified polymers did not show any inhibitory effect under our enzyme assay conditions. However, 50 .mu.g of modified Na-CMC, PAA and poly(acrylic acid-divinyl glycol) inhibited the proteolytic activity of elastase (6 .mu.g/290 .mu.l 50 mM Tris-HCl, pH 7.8) at 20.+-.0.5.degree.C up to 77%, 41% and 44.5%, resp. Whereas 1 mg of elastatinal-Na-CMC conjugates, resulting from reaction mixts. with a wt. ratio of inhibitor to polymer of 1:10, 1:5 and 1:1, exhibited a protective effect, which was equiv. to 2.8.+-.0.8 up to 9.2.+-.1.2 .mu.g of unbound inhibitor, corresponding conjugates of elastatinal with PAA and poly(acrylic acid-divinyl glycol) were in the range between 0.8.+-.0.4-3.2.+-.0.4 and 1.6.+-.0.4-4.2.+-.0.8 .mu.g (n = 3; .+-.S.D.), resp. Moreover, the mucoadhesive force of the polymers was not influenced by the slight modification. According to these results, the novel mucoadhesive polymers shielding from luminal enzymic attack may be a useful tool for the peroral administration of mainly elastase degradable therapeutic (poly) peptides.

IT 190733-09-6DP, reaction products with polymers 190733-09-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(modified mucoadhesive polymers for the peroral administration of mainly elastase degradable therapeutic (poly)peptides)

RN 190733-09-6 HCAPLUS

CN L-Glutamamide, (2R)-N-[[[(1S)-1-[[(8-aminooctyl)amino]carbonyl]-3-methylbutyl]amino]carbonyl]-2-[(4S)-hexahydro-2-imino-4-pyrimidinyl]glycyl-N1-[(1S)-1-methyl-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 190733-09-6 HCAPLUS

CN L-Glutamamide, (2R)-N-[[[(1S)-1-[[(8-aminooctyl)amino]carbonyl]-3-methylbutyl]amino]carbonyl]-2-[(4S)-hexahydro-2-imino-4-pyrimidinyl]glycyl-N1-[(1S)-1-methyl-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L32 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:276063 HCAPLUS

DOCUMENT NUMBER:

126:250255

TITLE:

Antitumor agents manufacture with Streptomyces

INVENTOR(S):

Nishigori, Takaaki; Kuwabara, Atsushi; Uehara, Yukimasa; Fukazawa, Shusuke; Mizuno, Satoshi

PATENT ASSIGNEE(S):

Nippon Kayaku Kk, Japan; Kokuritsu Yobo Eisei

Kenkyusho

SOURCE:

Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09048791	A2	19970218	JP 1995-199945	19950804
PRIORITY APPLN. INFO.	:		JP 1995-199945	19950804

AB Antitumor agents NA22598A1-A5 are manufd. by culturing Streptomyces sp. NA22598A1-A5. Shake-culture of Streptomyces sp. NA22598 in a medium of galactose, dextrin, Bactosoytone, etc., and recovery of the antitumor agents from the culture filtrate were shown. Inhibition of human ovary cancer with the antitumor NA22598A1-A5 was also shown. The physiol. and morphol. characteristics of Streptomyces sp. NA22598 and physicochem. characteristics of NA22598A1-A5 were also given.

IT 188674-15-9P, NA 22598A1

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antitumor agents manuf. with Streptomyces)

RN 188674-15-9 HCAPLUS

CN L-Valine, N-[2,3-diamino-8-[2-amino-1-(aminocarbonyl)-4,5-dihydro-1H-imidazol-5-yl]-2,3,4,5,8-pentadeoxyoctonoyl]-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Currently available stereo shown.

February 25, 2004

HCAPLUS COPYRIGHT 2004 ACS on STN L32 ANSWER 12 OF 21

ACCESSION NUMBER:

1996:499174 HCAPLUS

DOCUMENT NUMBER:

125:276458

TITLE:

Synthesis of 2-(.omega.-aminoalkyl)imidazolin-4-ones and other compounds by reaction of lactam acetals and

lactim ethers with .alpha.-aminoamides

AUTHOR(S):

Rottmann, Antje; Liebscher, Juergen

CORPORATE SOURCE:

Inst. Chem., Humboldt-Univ. Berlin, Berlin, D-10115,

Germany

SOURCE:

Journal of Heterocyclic Chemistry (1996), 33(3),

811-813

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER:

HeteroCorporation

DOCUMENT TYPE:

Journal English

LANGUAGE:

Reaction of N-methylamides (I; R1 = Me, Me2CH) with lactam acetals (II; n = 1-3) or lactim ethers (III; n = 1-3) gives . N-methyl-.alpha.lactamiminoamides (IV) by condensation and 2-(.omega.aminoalkyl)imidazolin-5-ones (V) or 2-(.omega.-lactamiminoalkyl)imidazolin-4-ones (VI) by ring chain transformation. All products represent novel optically active derivs. of biogenic .alpha.-amino acids.

IT182164-83-6P 182164-84-7P

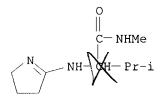
> RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of 2-(.omega.-aminoalkyl)imidazolin-4-ones and other compds. by reaction of lactam acetals and lactim ethers with .alpha.-amino acid amides)

RN 182164-83-6 HCAPLUS

Propanamide, 2-[(3,4-dihydro-2H-pyrrol-5-yl)amino]-N-methyl-, (S)- (9CI) CN (CA INDEX NAME)

RN 182164-84-7 HCAPLUS

Butanamide, 2-[(3,4-dihydro-2H-pyrrol-5-yl)amino]-N,3-dimethyl-, (S)-(9CI) (CA INDEX NAME)



L32 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:471838 HCAPLUS

DOCUMENT NUMBER:

122:222823

TITLE:

preparation of elastase inhibitors from Streptomyces

for therapeutic use

INVENTOR(S):

Takeuchi, Tomio; Aoyanagi, Takaaki; Hamada, Masa; Ojiri, Katsuhisa; Ihara, Masaki; Morishima, Hajime

PATENT ASSIGNEE(S):

Banyu Pharma Co Ltd, Japan; Microbial Chemistry

Research Foundation

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
~~~~~~~~~				
JP 06345796	A2	19941220	JP 1993-166131	19930611
PRIORITY APPLN INFO	•		JP 1993-166131	19930611

AB Novel elastase inhibitors (I) [ R = Q1 (elastatinal B) or Q2 (elastatinal C)] are manufd. by cultivation of Streptomyces in a medium. Elastatinal B or elastatinal C may be used in treating acute arteritis, lung edema, arteriosclerosis and/or other inflammation.

IT 162232-36-2P, Elastatinal B 162232-37-3P, Elastatinal C
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of elastase inhibitors (elastatinal B and C) from Streptomyces for therapeutic use)

RN 162232-36-2 HCAPLUS

CN L-Glutamamide, (2S)-2-[(4S)-2-amino-1,4,5,6-tetrahydro-4-pyrimidinyl]-N[[[(1S)-1-carboxy-3-methylbutyl]amino]carbonyl]glycyl-N1-[(1S)-1-methyl2,3-dioxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 162232-37-3 HCAPLUS

CN L-Glutamamide, (2S)-2-[(4S)-2-amino-1,4,5,6-tetrahydro-4-pyrimidinyl]-N[[[(1S)-1-carboxy-3-methylbutyl]amino]carbonyl]glycyl-N1-[(1S)-1-methyl-2oxiranyl-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Currently available stereo shown.

L32 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:123510 HCAPLUS

DOCUMENT NUMBER:

116:123510

TITLE:

Unresolved rearrangement of thiazoline form of

glutathione

AUTHOR(S):

Fujii, Katsuhiko

CORPORATE SOURCE:

Div. Biochem., Teijin Inst. Biomed. Res., Tokyo, 191,

Japan

SOURCE:

European Journal of Biochemistry (1992), 203(1-2),

75-80

CODEN: EJBCAI; ISSN: 0014-2956

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The thiazoline form of glutathione was investigated with regard to its unresolved stability under neutral conditions. A simple method was developed for prodn. of the thiazoline in stable solid form, thereby facilitating prepn. of its neutral soln. without using excess base and

enabling isolation of the reaction product in quantity by ion-exchange chromatog. Anal. of the product by HPLC, IR and UV absorption spectroscopy, mass spectrometry and proton magnetic resonance led to the identification of a cyclic amide form of glutathione. The instability of the thiazoline is, therefore, due to an intramol. rearrangement reaction, rather than hydrolysis. Once formed, the amide is stable at pH 5-7 and in concd. HCl, showing no tendency to rearrange back to either the original thiazoline or glutathione under these conditions.

#### ΙT 129950-95-4P

RL: PREP (Preparation)

(formation from glutathione-thiazoline and stability of)

RN 129950-95-4 HCAPLUS

Glycine, N-[N-(2-carboxy-3,4-dihydro-2H-pyrrol-5-yl)-L-cysteinyl]-, (S)-CN (9CI) (CA INDEX NAME)

HCAPLUS COPYRIGHT 2004 ACS on STN L32 ANSWER 15 OF 21

ACCESSION NUMBER:

1990:572762 HCAPLUS

DOCUMENT NUMBER:

113:172762

TITLE:

Preparation of cyclic amidine derivatives of

glutathione and analogs as drugs

INVENTOR(S):

Fujii, Katsuhiko

PATENT ASSIGNEE(S):

Teijin Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 02121965	A2	19900509	JP 1988-272904	19881031
	JP 07045465	B4	19950517		
PRIC	RITY APPLN. INFO.	:		JP 1988-272904	19881031
OTHE	R SOURCE(S):	MA	RPAT 113:1727	62	
AB	The title compds	. I [X	= CO2H, R1,	CO2R1; R1 = (substi	tuted) hydrocarbyl;
	Y = OH, OR1, A,	etc.;	A = amino aci	d residue; $Z = H$ , R	1, COR1, etc.] were
				th HCl, followed by	
	resulting salt w	-			· · · · · · · · · · · · · · · · · · ·
ΙT	129950-99-8P				
	RL: SPN (Synthet	ic pre	paration); PR	REP (Preparation)	
	(prepn. of)	-	-	-	
RN	129950-99-8 нса	PLUS			

Glycine, N-[(2S)-2-carboxy-3,4-dihydro-2H-pyrrol-5-yl]-L-cysteinyl-, CN 2-ethyl ester, bimol. (1.fwdarw.1')-disulfide (9CI) (CA INDEX NAME)

IT 129950-95-4P 129950-96-5P 129950-98-7P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as drug)

RN 129950-95-4 HCAPLUS

CN Glycine, N-[N-(2-carboxy-3,4-dihydro-2H-pyrrol-5-yl)-L-cysteinyl]-, (S)-(9CI) (CA INDEX NAME)

RN 129950-96-5 HCAPLUS

CN Glycine, N-[N-[2-(ethoxycarbonyl)-3,4-dihydro-2H-pyrrol-5-yl]-L-cysteinyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

RN 129950-98-7 HCAPLUS

CN Glycine, N-[N-(2-carboxy-3,4-dihydro-2H-pyrrol-5-yl)-L-cysteinyl]-, 1-ethyl ester, (S)- (9CI) (CA INDEX NAME)

L32 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:118534 HCAPLUS

DOCUMENT NUMBER:

112:118534

TITLE:

Preparation of 1-sulfo-2-oxoazetidines as

antibacterial agents

INVENTOR(S):

Ochiai, Michihiko; Kishimoto, Shoji; Matsuo, Taisuke

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE:

U.S., 252 pp. Cont.-in-part of U.S. Ser. No. 326,938.

CODEN: USXXAM

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4782147	A	19881101	US 1983-499802	19830531
WO 8201873	<b>A</b> 1	19820610	WO 1980-JP297	19801205
W: MC				
WO 8203859	<b>A</b> 1	19821111	WO 1981-JP103	19810430
W: MC				
WO 8300689	A1	19830303	WO 1981-JP183	19810821
W: MC				
WO 8301063	Al	19830331	WO 1981-JP252	19810924
W: MC				
US 4822788	A	19890418	US 1981-326938	19811203
JP 58210061	A2	19831207	JP 1982-93463	19820531
JP 04066865	В4	19921026		
US 4572801	Α	19860225	US 1983-499801	19830531
GB 2156350	A1	19851009	GB 1985-9070	19850409
GB 2156350	B2	19860604		
NO 8700981	A	19831031	NO 1987-981	19870310
FI 8801563	А	19880405	 FI 1988-1563	19880405
PRIORITY APPLN. INFO.:	:		1980-JP297	19801205
	*		 1981-JP103	19810430
			 1981-JP183	19810821
			1981-JP252	19810924
			 1981-326938	19811203
			1982-93463	19820531
			 1981-W0103	19810430
			 1981-WO183 1981-WO252	19810821 19810924
			 	19810924
			1982-73728 1982-405592	19820430
				19830419
			1983-10520 1983-1457	19830419
			 1983-1457	19830428
OTHER SOURCE(S):	MA	RPAT 112·118	 1909-1914	19030423

OTHER SOURCE(S): MARPAT 112:118534

The title compds. [I; R = H, N3, halo, NH2, acylamino, OR5, SOnR5, P(O)(OR5)2, SSR5, C-attached org. residue; R1 = (protected) NH2, acylamino; R5 = org. residue; X = H, MeO; n = 0-2] and their salts were prepd. 2-Oxoazetidine II [R1 = PhCH2O2CNH, R2 = OMe, R3 = 2,4-(MeO)2C6H3CH2] (prepn. from corresponding 3-amino deriv. given) was stirred 3 h at 90-95.degree. with K2S2O8 in aq. MeCN contg. K2HPO4 to give II (R1 and R2 as above, R3 = H) which was stirred 19 h in THF contg. aq. NH3 to give II (R1 as above, R2 = NH2, R3 = H). The latter was hydrogenolyzed over Pd/C and the product stirred with 4-O2NC6H4CH2O2CCMe2ON:CQCOC1 [Q = 2-(2-chloroacetamido)-4-thiazolyl] (prepn. given) to give II (R1 = 4-O2NC6H4CH2O2CCMe2ON:CQCONH, R2 = NH2, R3 = H) which was treated overnight at 4.degree. with SO3.DMF in DMF to give, after ion-exchange chromatog., II (R1, R2 unchanged, R3 = SO3Na). Deprotection of the latter in 2 steps gave title compd. III, which had min. inhibitory concn. of 1.56 and 0.39 .mu.g/mL against Enterobacter cloacae IFO 129537 and Klebsiella pneumoniae TN 1711, resp.

### IT 122675-69-8P 122675-70-1P

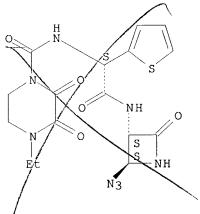
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in prepn. of antibacterial agents)

RN 122675-69-8 HCAPLUS

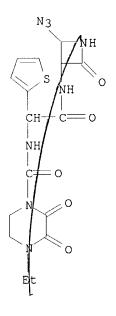
CN 1-Piperazinecarboxamide, N-[2-[(2-azido-4-oxo-3-azetidinyl)amino]-2-oxo-1-(2-thienyl)ethyl]-4-ethyl-2,3-dioxo-, [2S-[2.alpha.,3.beta.(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 122675-70-1 HCAPLUS

1-Piperazinecarboxamide, N-[2-[(2-azido-4-oxo-3-azetidinyl)amino]-2-oxo-1-(2-thienyl)ethyl]-4-ethyl-2,3-dioxo-(9CI) (CA INDEX NAME)



L32 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:400176 HCAPLUS

DOCUMENT NUMBER:

111:176

TITLE:

Antiamnesic effects of D-pipecolic acid and analogs of Pro-Leu-Gly-NH2 in rats

AUTHOR(S):

Kovacs, Gabor L.; Szabo, Gyula; Telegdy, Gyula; Balaspiri, Lajos; Palos, Eva; Szpornyi, Laszlo

CORPORATE SOURCE:

Inst. Pathophysiol., Univ. Med. Sch., Szeged, Hung.

SOURCE: Pho

Pharmacology, Biochemistry and Behavior (1988), 31(4),

833-7

CODEN: PBBHAU; ISSN: 0091-3057

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The antiamnesic effects of prolyl-leucyl-glycinamide (PLG) and analogs of this tripeptide were investigated in rats. Retrograde amnesia was induced by electroconvulsive shock treatment and the degree of amnesia was characterized by the attenuation of 1-trial learning passive avoidance response. PLG resulted in dose-dependent attenuation of retrograde amnesia. Structural modifications included N-terminal protection, substitution of the C-terminal NH2 group, replacement of the N-terminal amino acid, and replacement of the second amino acid of the tripeptide. D-Pipecolic acid, D-pipecolamide and their N-terminally protected analogs were found to have powerful antiamnesic effects.

IT 120976-43-4

RL: BIOL (Biological study)

(amnesia inhibition by, structure in relation to)

RN 120976-43-4 HCAPLUS

CN Glycinamide, N-2-piperidinyl-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L32 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1988:492650 HCAPLUS

DOCUMENT NUMBER:

109:92650

TITLE:

Preparation and formation of

(lethoxyimino)acetamidocephem and -carbacephem

antibiotics with strong activity against gram-positive

and -negative bacteria

INVENTOR(S):

Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi;

Sato, Kiyoshi

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP:62267287	A2	19871119	JP 1986-112077	19860516

PRIORITY APPLN. INFO.: JP 1986-112077 19860516 OTHER SOURCE(S): CASREACT 109:92650

The title compds. I [X = S, CH2; R1, R2 = H, lower alkyl, or CR1R2 =AB cycloalkylidene; R3 = OH, lower alkoxy, (substituted) amino, thioureido, ureido, quanidino; R4 = H, lower alkyl; R5 = H, acetoxymethyl, carbamoylmethyl, (substituted) heterocyclylthio, -methylthio, and -thiomethyl; R6 = H, alkali metal, alk. earth metal, org. ammonium, ester residue; CO2R6 is CO2- when R5 is quaternary ammonium], useful as antibiotics, were prepd. Acylation of (6R,7S)-7-amino-1azabicyclo[4.2.0]oct-2-en-8-oxo-2-carboxylic acid with 2-(2-tritylaminothiazol-4-yl)-2-(Z)-(1-formyl-1-methyl) ethoxyiminoacetyl chloride, followed by deprotection and reaction with NH2OH.cntdot.HCl gave (6R,7S)-7-[2-(2-aminothiazol-4-yl)-2-(2)-(1-hydroxyiminomethyl-1methyl)ethoxyiminoacetamido]-1-azabicyclo[4.2.0]oct-2-en-8-oxo-2carboxylic acid (II). II in vitro exhibited a MIC of 0.2 .mu.g/mL against Escherichia coli NIHJ JC-2. An injectable powder contg. I 1000 and D-mannitol 150 g was prepd.

IT 115444-00-3P 115444-04-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of, as antibiotic)

RN 115444-00-3 HCAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(acetyloxy)methyl]-7-[[(2-amino-4-thiazolyl)[[2-[(4,5-dihydro-1H-imidazol-2-yl)hydrazono]-1,1-dimethylethoxy]imino]acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 115444-04-7 HCAPLUS

CN 1-Azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazolyl)][[2-[(4,5-dihydro-1H-imidazol-2-yl)hydrazono]-1,1-dimethylethoxy]imino]acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L32 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1988:142849 HCAPLUS

DOCUMENT NUMBER:

108:142849

TITLE:

Synthesis and biological action of amidinomercaptoic

acids and related compounds

AUTHOR(S):

Granik, V. G.; Shvarts, G. Ya.; Grizik, S. I.;

Tugusheva, N. Z.; Faermark, I. F.; Kugaevskaya, E. V.;

Eliseeva, Yu. E.; Pavlikhina, L. V.; Orekhovich, V.

N.; Mashkovskii, M. D.

CORPORATE SOURCE:

VNIKhFI, Moscow, USSR

SOURCE:

Khimiko-Farmatsevticheskii Zhurnal (1987), 21(12),

1428-33

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

AB A series of captopril analogs (e.g., I) were prepd. by reaction of amino acids (cysteine, penicillamine, etc.) with lactim esters and lactam acetals to evaluate the structure-activity relationships with respect to the presence of SH-, COOH-, and other groups in the mol. The derivs. were tested in vitro for inhibition of the angiotensin-converting enzyme (dipeptidylcarboxypeptidase) and activation of bradykinin, and in vivo for toxicity in mice and antihypertensive effects in rats. Most derivs. showed some degree of the activities of interest. The presence of SH-, COOH-, and amidine groups is essential for activity. Concurrent administration of the decarboxylation inhibitor isoniazid decreased inactivation of the compds. and prolonged their antihypertensive effects.

IT 113561-29-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and antihypertensive activity of, angiotensin-converting enzyme inhibition and structure in relation to)

RN 113561-29-8 HCAPLUS

CN L-Glutamine, N2-(3,4-dihydro-2H-pyrrol-5-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L32 ANSWER 20 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:85036 HCAPLUS

DOCUMENT NUMBER: 106:85036

TITLE: Studies on amino acids and peptides, 11. Synthesis of

four MIF analogs containing an N-terminal

(S)-5-thioxoprolyl residue

AUTHOR(S): Andersen, Torben P.; Senning, Alexander

CORPORATE SOURCE: Dep. Org. Chem., Univ. Aarhus, Aarhus, DK-8000, Den.

SOURCE: Liebigs Annalen der Chemie (1987), (1), 59-64

CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:85036

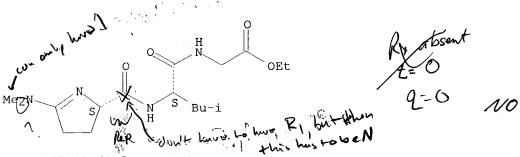
MIF analogs Top-Leu-Gly-NRR1 (I; Top = 5-thioxoproline; R = H, R1 = Et, Pr, CHMe2; R = R1 = Me) were prepd. by coupling Top-OH with H-Leu-Gly-NRR1.HCl (II) by the mixed anhydride method using Me2CHCH2O2CCl (IBCF). In the synthesis of I (R = H, R1 = Pr, CHMe2), the corresponding Me2CHCH2O2C-Top-Leu-Gly-NRR1 (III) were isolated as side products. The amt. of III was decreased by decreasing the amt. of IBCF and decreasing the activation time. II were prepd. by amidating Boc-Leu-Gly-OEt (Boc = Me3CO2C) with HNRR1 and Boc-deblocking the resulting Boc-Leu-Gly-NRR1 by HCl/dioxane.

IT 105141-62-6P 105141-63-7P

RN 105141-62-6 HCAPLUS

CN Glycine, N-[N-[1,5-didehydro-5-(dimethylamino)-L-prolyl]-L-leucyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 105141-63-7 HCAPLUS

CN Glycinamide, 1,5-didehydro-5-(dimethylamino)-L-prolyl-L-leucyl-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L32 ANSWER 21 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1978:136963 HCAPLUS

DOCUMENT NUMBER:

88:136963

TITLE:

Chemical studies on tuberactinomycin. XV. Total

synthesis of tuberactinomycin O

AUTHOR(S):

Teshima, Tadashi; Nomoto, Shinya; Wakamiya, Tateaki;

Shiba, Tetsuo

CORPORATE SOURCE:

Fac. Sci., Osaka Univ., Toyonaka, Japan

SOURCE:

Journal of Antibiotics (1977), 30(12), 1073-9

CODEN: JANTAJ; ISSN: 0021-8820

DOCUMENT TYPE:

Journal English

LANGUAGE:

Tuberactinomycin O (I) was prepd. by coupling BOC-.beta.-Lys(BOC)-OSu (BOC = Me3CO2C, Su = succinimido) to tuberactinamine N (II) and BOC-deblocking the resulting III. Dipeptide IV [Nps = o-(O2N)C6H4S, Cpd = capreomycidine residue, A2pr = HNCH(CH2NH2)CO] was coupled to H-Ser(CMe3)-Ser(CMe3)-Dea-OEt [Dea = HNCH[CH(OEt)2]CO] to give the pentapeptide which was sapond. and esterified with HOSu to give pentapeptide active ester V. V was Nps-deblocked with HCl and cyclized with pyridine to give cyclic peptide

VI which was deblocked by hydrogenation and CF3CO2H and then the .beta.,.beta.-diethoxyalanine residue was treated with urea to give II.

IT 65918-85-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and cyclization of)

RN 65918-85-6 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[[N-[N-[N-[L-2-[[(1,1-dimethylethoxy)carbonyl]amino]-N-[L-2-[1,4,5,6-tetrahydro-2-(nitroamino)-4-pyrimidinyl]glycyl]-.beta.-alanyl]-O-(1,1-dimethylethyl)-L-seryl]-O-(1,1-dimethylethyl)-L-seryl]-3-ethoxy-O-ethylseryl]oxy]-, (R)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B